GE Healthcare

CT/e, CT ProSpeed AI/FI Series
DVD and Software V/R3.14 Upgrade Instruction

Operating Documentation

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Rev 2

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Revision History

Revision	Date	Reason for change
1	03/13/07	Initial release.
2	11/30/07	Combined content for 3.5" MOD to DVD-RAM and SW V/R3.14 upgrade.

IMPORTANT PRECAUTIONS

LANGUAGE

警告
(ZH-CN)

- 本维修手册仅提供英文版本。
- 如果维修服务提供商需要非英文版本，客户需自行提供翻译服务。
- 未详细阅读和完全理解本维修手册之前，不得进行维修。
- 忽略本警告可能对维修人员，操作员或患者造成触电、机械伤害或其他形式的伤害。

VÝSTRAHA
(CS)

- **TENTO PROVOZNÍ NÁVOD EXISTUJE POUZE V ANGLICKÉM JAZYCE.**
- **V PŘÍPADĚ, ŽE EXTERNÍ SLUŽBA ZÁKAZNÍKŮM POTŘEBUJE NÁVOD V JINÉM JAZYCE, JE ZAJIŠTĚNÍ PŘEKLADU DO ODPOVÍDAJÍCÍHO JAZYKA ÚKOLEM ZÁKAZNÍKA.**
- **NESNAŽTE SE O ÚDRŽBU TOHOTO ZAŘÍZENÍ, ANIŽ BYSTE SI PŘEČETLI TENTO PROVOZNÍ NÁVOD A POCHOPILI JEHO OBSAH.**
- **V PŘÍPADĚ NEDODRŽOVÁNÍ TÉTO VÝSTRAHY MŮŽE DOJÍT K PORANĚNÍ PRACOVNÍKA PRODEJNÍHO SERVISU, OBSLUŽNÉHO PERSONÁLU NEBO PACIENTŮ VLIVEM ELEKTRICKÉHOP PROUDU, RESPEKTIVE VLIVEM MECHANICKÝCH ČI JINÝCH RIZIK.**

ADVARSEL
(DA)

- **DENNE SERVICEMANUAL FINDES KUN PÅ ENGELSK.**
- **HVIS EN KUNDES TEKNIKER HAR BRUG FOR ET ANDET SPROG END ENGELSK, ER DET KUNDENS ANSVAR AT SØRGE FOR OVERSÆTTELSE.**
- **FORSØG IKKE AT SERVICERE UDSTYRET MEDMINDRE DENNE SERVICEMANUAL HAR VÆRET KONSULTERET OG ER FORSTÅET.**
- **MANGLENDE OVERHOLDELSE AF DENNE ADVARSEL KAN MEDFØRE SKADE PÅ GRUND AF ELEKTRISK, MEKANISK ELLER ANDEN FARE FOR TEKNIKEREN, OPERATØREN ELLER PATIENTEN.**

WAARSCHUWING
(NL)

- **DEZE ONDERHOUDSHANDLEIDING IS ENKEL IN HET ENGELS VERKRIJGBAAR.**
- **ALS HET ONDERHOUDSPERSONEEL EEN ANDERE TAAL VEREIST, DAN IS DE KLANT VERANTWOORDELIJK VOOR DE VERTALING ERVAN.**
- **PROBEER DE APPARATUUR NIET TE ONDERHOUDEN VOORDAT DEZE ONDERHOUDSHANDLEIDING WERD GERAADPLEEGD EN BEGREPEN IS.**
- **INDIEN DEZE WAARSCHUWING NIET WORDT OPGEVOLGD, ZOU HET ONDERHOUDSPERSONEEL, DE OPERATOR OF EEN PATIËNT GEWOND KUNNEN RAKEN ALS GEVOLG VAN EEN ELEKTRISCHE SCHOK, MECHANISCHE OF ANDERE GEVAREN.**

WARNING
(EN)

- **THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.**
- **IF A CUSTOMER'S SERVICE PROVIDER REQUIRES A LANGUAGE OTHER THAN ENGLISH, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE TRANSLATION SERVICES.**
- **DO NOT ATTEMPT TO SERVICE THE EQUIPMENT UNLESS THIS SERVICE MANUAL HAS BEEN CONSULTED AND IS UNDERSTOOD.**
- **FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO THE SERVICE PROVIDER, OPERATOR OR PATIENT FROM ELECTRIC SHOCK, MECHANICAL OR OTHER HAZARDS.**

HOIATUS
(ET)

- **KÄESOLEV TEENINDUSJUHEND ON SAADAVAL AINULT INGLISE KEELES.**
- **KUI KLIENDITEENINDUSE OSUTAJA NÕUAB JUHENDIT INGLISE KEELEST ERINEVAS KEELES, VASTUTAB KLIENT TÕLKETEENUSE OSUTAMISE EEST.**
- **ÄRGE ÜRITAGE SEADMEID TEENINDADA ENNE EELNEVALT KÄESOLEVA TEENINDUSJUHENDIGA TUTVUMIST JA SELLEST ARU SAAMIST.**
- **KÄESOLEVA HOIATUSE EIRAMINE VÕIB PÕHJUSTADA TEENUSEOSUTAJA, OPERAATORI VÕI PATSIENDI VIGASTAMIST ELEKTRILÖÖGI, MEHAANILISE VÕI MUU OHU TAGAJÄRJEL.**

VAROITUS
(FI)

- **TÄMÄ HUOLTO-OHJE ON SAATAVILLA VAIN ENGLANNIKSI.**
- **JOS ASIAKKAAN HUOLTOHENKILÖSTÖ VAATII MUUTA KUIN ENGLANNINKIELISTÄ MATERIAALIA, TARVITTAVAN KÄÄNNÖKSEN HANKKIMINEN ON ASIAKKAAN VASTUULLA.**
- **ÄLÄ YRITÄ KORJATA LAITTEISTOA ENNEN KUIN OLET VARMASTI LUKENUT JA YMMÄRTÄNYT TÄMÄN HUOLTO-OHJEEN.**
- **MIKÄLI TÄTÄ VAROITUSTA EI NOUDATETA, SEURAUKSENA VOI OLLA HUOLTOHENKILÖSTÖN, LAITTEISTON KÄYTTÄJÄN TAI POTILAAN VAHINGOITTUMINEN SÄHKÖISKUN, MEKAANISEN VIAN TAI MUUN VAARATILANTEEN VUOKSI.**

ATTENTION
(FR)

- **CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.**
- **SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.**
- **NE PAS TENTER D'INTERVENTION SUR LES ÉQUIPEMENTS TANT QUE LE MANUEL SERVICE N'A PAS ÉTÉ CONSULTÉ ET COMPRIS.**
- **LE NON-RESPECT DE CET AVERTISSEMENT PEUT ENTRAÎNER CHEZ LE TECHNICIEN, L'OPÉRATEUR OU LE PATIENT DES BLESSURES DUES À DES DANGERS ÉLECTRIQUES, MÉCANIQUES OU AUTRES.**

WARNUNG
(DE)

- **DIESE SERVICEANLEITUNG EXISTIERT NUR IN ENGLISCHER SPRACHE.**
- **FALLS EIN FREMDER KUNDENDIENST EINE ANDERE SPRACHE BENÖTIGT, IST ES AUFGABE DES KUNDEN FÜR EINE ENTSPRECHENDE ÜBERSETZUNG ZU SORGEN.**
- **VERSUCHEN SIE NICHT DIESE ANLAGE ZU WARTEN, OHNE DIESE SERVICEANLEITUNG GELESEN UND VERSTANDEN ZU HABEN.**
- **WIRD DIESE WARNUNG NICHT BEACHTET, SO KANN ES ZU VERLETZUNGEN DES KUNDENDIENSTTECHNIKERS, DES BEDIENERS ODER DES PATIENTEN DURCH STROMSCHLÄGE, MECHANISCHE ODER SONSTIGE GEFAHREN KOMMEN.**

ΠΡΟΕΙΔΟΠΟΙΗΣΗ
(EL)

- **ΤΟ ΠΑΡΟΝ ΕΓΧΕΙΡΙΔΙΟ ΣΕΡΒΙΣ ΔΙΑΤΙΘΕΤΑΙ ΣΤΑ ΑΓΓΛΙΚΑ ΜΟΝΟ.**
- **ΕΑΝ ΤΟ ΑΤΟΜΟ ΠΑΡΟΧΗΣ ΣΕΡΒΙΣ ΕΝΟΣ ΠΕΛΑΤΗ ΑΠΑΙΤΕΙ ΤΟ ΠΑΡΟΝ ΕΓΧΕΙΡΙΔΙΟ ΣΕ ΓΛΩΣΣΑ ΕΚΤΟΣ ΤΩΝ ΑΓΓΛΙΚΩΝ, ΑΠΟΤΕΛΕΙ ΕΥΘΥΝΗ ΤΟΥ ΠΕΛΑΤΗ ΝΑ ΠΑΡΕΧΕΙ ΥΠΗΡΕΣΙΕΣ ΜΕΤΑΦΡΑΣΗΣ.**
- **ΜΗΝ ΕΠΙΧΕΙΡΗΣΕΤΕ ΤΗΝ ΕΚΤΕΛΕΣΗ ΕΡΓΑΣΙΩΝ ΣΕΡΒΙΣ ΣΤΟΝ ΕΞΟΠΛΙΣΜΟ ΕΚΤΟΣ ΕΑΝ ΕΧΕΤΕ ΣΥΜΒΟΥΛΕΥΤΕΙ ΚΑΙ ΕΧΕΤΕ ΚΑΤΑΝΟΗΣΕΙ ΤΟ ΠΑΡΟΝ ΕΓΧΕΙΡΙΔΙΟ ΣΕΡΒΙΣ.**
- **ΕΑΝ ΔΕ ΛΑΒΕΤΕ ΥΠΟΨΗ ΤΗΝ ΠΡΟΕΙΔΟΠΟΙΗΣΗ ΑΥΤΗ, ΕΝΔΕΧΕΤΑΙ ΝΑ ΠΡΟΚΛΗΘΕΙ ΤΡΑΥΜΑΤΙΣΜΟΣ ΣΤΟ ΑΤΟΜΟ ΠΑΡΟΧΗΣ ΣΕΡΒΙΣ, ΣΤΟ ΧΕΙΡΙΣΤΗ Ή ΣΤΟΝ ΑΣΘΕΝΗ ΑΠΟ ΗΛΕΚΤΡΟΠΛΗΞΙΑ, ΜΗΧΑΝΙΚΟΥΣ Ή ΑΛΛΟΥΣ ΚΙΝΔΥΝΟΥΣ.**

FIGYELMEZTETÉS
(HU)

- **EZEN KARBANTARTÁSI KÉZIKÖNYV KIZÁRÓLAG ANGOL NYELVEN ÉRHETŐ EL.**
- **HA A VEVŐ SZOLGÁLTATÓJA ANGOLTÓL ELTÉRŐ NYELVRE TART IGÉNYT, AKKOR A VEVŐ FELELŐSSÉGE A FORDÍTÁS ELKÉSZÍTTETÉSE.**
- **NE PRÓBÁLJA ELKEZDENI HASZNÁLNI A BERENDEZÉST, AMÍG A KARBANTARTÁSI KÉZIKÖNYVBEN LEÍRTAKAT NEM ÉRTELMEZTÉK.**
- **EZEN FIGYELMEZTETÉS FIGYELMEN KÍVÜL HAGYÁSA A SZOLGÁLTATÓ, MŰKÖDTETŐ VAGY A BETEG ÁRAMÜTÉS, MECHANIKAI VAGY EGYÉB VESZÉLYHELYZET MIATTI SÉRÜLÉSÉT EREDMÉNYEZHETI.**

AÐVÖRUN
(IS)

- **ÞESSI ÞJÓNUSTUHANDBÓK ER EINGÖNGU FÁANLEG Á ENSKU.**
- **EF AÐ ÞJÓNUSTUVEITANDI VIÐSKIPTAMANNS ÞARFNAST ANNAS TUNGUMÁLS EN ENSKU, ER ÞAÐ SKYLDA VIÐSKIPTAMANNS AÐ SKAFFA TUNGUMÁLAÞJÓNUSTU.**
- **REYNIÐ EKKI AÐ AFGREIÐA TÆKIÐ NEMA AÐ ÞESSI ÞJÓNUSTUHANDBÓK HEFUR VERIÐ SKOÐUÐ OG SKILIN.**
- **BROT Á SINNA ÞESSARI AÐVÖRUN GETUR LEITT TIL MEIÐSLA Á ÞJÓNUSTUVEITANDA, STJÓRNANDA EÐA SJÚKLINGS FRÁ RAFLOSTI, VÉLRÆNU EÐA ÖÐRUM ÁHÆTTUM.**

AVVERTENZA

(IT)

- **IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.**
- **SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.**
- **SI PROCEDA ALLA MANUTENZIONE DELL'APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.**
- **IL NON RISPETTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL'ADDETTO ALLA MANUTENZIONE, ALL'UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.**

警告

(JA)

- **このサービスマニュアルには英語版しかありません。**
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경고

(KO)

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BRĪDINĀJUMS

(LV)

- **ŠĪ APKALPES ROKASGRĀMATA IR PIEEJAMA TIKAI ANGĻU VALODĀ.**
- **JA KLIENTA APKALPES SNIEDZĒJAM NEPIECIEŠAMA INFORMĀCIJA CITĀ VALODĀ, NEVIS ANGĻU, KLIENTA PIENĀKUMS IR NODROŠINĀT TULKOŠANU.**
- **NEVEICIET APRĪKOJUMA APKALPI BEZ APKALPES ROKASGRĀMATAS IZLASĪŠANAS UN SAPRAŠANAS.**
- **ŠĪ BRĪDINĀJUMA NEIEVĒROŠANA VAR RADĪT ELEKTRISKĀS STRĀVAS TRIECIENA, MEHĀNISKU VAI CITU RISKU IZRAISĪTU TRAUMU APKALPES SNIEDZĒJAM, OPERATORAM VAI PACIENTAM.**

ĮSPĖJIMAS

(LT)

- **ŠIS EKSPLOATAVIMO VADOVAS YRA PRIEINAMAS TIK ANGLŲ KALBA.**
- **JEI KLIENTO PASLAUGŲ TIEKĖJAS REIKALAUJA VADOVO KITA KALBA – NE ANGLŲ, NUMATYTI VERTIMO PASLAUGAS YRA KLIENTO ATSAKOMYBĖ.**
- **NEMĖGINKITE ATLIKTI ĮRANGOS TECHNINĖS PRIEŽIŪROS, NEBENT ATSIŽVELGĖTE Į ŠĮ EKSPLOATAVIMO VADOVĄ IR JĮ SUPRATOTE.**
- **JEI NEATKREIPSITE DĖMESIO Į ŠĮ PERSPĖJIMĄ, GALIMI SUŽALOJIMAI DĖL ELEKTROS ŠOKO.**
- **MECHANINIŲ AR KITŲ PAVOJŲ PASLAUGŲ TIEKĖJUI, OPERATORIUI AR PACIENTUI.**

ADVARSEL

(NO)

- **DENNE SERVICEHÅNDBOKEN FINNES BARE PÅ ENGELSK.**
- **HVIS KUNDENS SERVICELEVERANDØR TRENGER ET ANNET SPRÅK, ER DET KUNDENS ANSVAR Å SØRGE FOR OVERSETTELSE.**
- **IKKE FORSØK Å REPARERE UTSTYRET UTEN AT DENNE SERVICEHÅNDBOKEN ER LEST OG FORSTÅTT.**
- **MANGLENDE HENSYN TIL DENNE ADVARSELEN KAN FØRE TIL AT SERVICELEVERANDØREN, OPERATØREN ELLER PASIENTEN SKADES PÅ GRUNN AV ELEKTRISK STØT, MEKANISKE ELLER ANDRE FARER.**

OSTRZEŻENIE

(PL)

- **NINIEJSZY PODRĘCZNIK SERWISOWY DOSTĘPNY JEST JEDYNIE W JĘZYKU ANGIELSKIM.**
- **JEŚLI DOSTAWCA USŁUG KLIENTA WYMAGA JĘZYKA INNEGO NIŻ ANGIELSKI, ZAPEWNIENIE USŁUGI TŁUMACZENIA JEST OBOWIĄZKIEM KLIENTA.**
- **NIE PRÓBOWAĆ SERWISOWAĆ WYPOSAŻENIA BEZ ZAPOZNANIA SIĘ I ZROZUMIENIA NINIEJSZEGO PODRĘCZNIKA SERWISOWEGO.**
- **NIEZASTOSOWANIE SIĘ DO TEGO OSTRZEŻENIA MOŻE SPOWODOWAĆ URAZY DOSTAWCY USŁUG, OPERATORA LUB PACJENTA W WYNIKU PORAŻENIA ELEKTRYCZNEGO, ZAGROŻENIA MECHANICZNEGO BĄDŹ INNEGO.**

ATENÇÃO
(PT)

- **ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.**
- **SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.**
- **NÃO TENTE REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÉNCIA TÉCNICA**
- **O NÃO CUMPRIMENTO DESTE AVISO PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.**

ATENȚIE
(RO)

- **ACEST MANUAL DE SERVICE ESTE DISPONIBIL NUMAI ÎN LIMBA ENGLEZĂ.**
- **DACĂ UN FURNIZOR DE SERVICII PENTRU CLIENȚI NECESITĂ O ALTĂ LIMBĂ DECÂT CEA ENGLEZĂ, ESTE DE DATORIA CLIENTULUI SĂ FURNIZEZE O TRADUCERE.**
- **NU ÎNCERCAȚI SĂ REPARAȚI ECHIPAMENTUL DECÂT ULTERIOR CONSULTĂRII ŞI ÎNȚELEGERII ACESTUI MANUAL DE SERVICE.**
- **IGNORAREA ACESTUI AVERTISMENT AR PUTEA DUCE LA RĂNIREA DEPANATORULUI, OPERATORULUI SAU PACIENTULUI ÎN URMA PERICOLELOR DE ELECTROCUTARE, MECANICE SAU DE ALTĂ NATURĂ.**

ОСТОРОЖНО!
(RU)

- **ДАННОЕ РУКОВОДСТВО ПО ОБСЛУЖИВАНИЮ ПРЕДЛАГАЕТСЯ ТОЛЬКО НА АНГЛИЙСКОМ ЯЗЫКЕ.**
- **ЕСЛИ СЕРВИСНОМУ ПЕРСОНАЛУ КЛИЕНТА НЕОБХОДИМО РУКОВОДСТВО НЕ НА АНГЛИЙСКОМ, А НА КАКОМ-ТО ДРУГОМ ЯЗЫКЕ, КЛИЕНТУ СЛЕДУЕТ САМОСТОЯТЕЛЬНО ОБЕСПЕЧИТЬ ПЕРЕВОД.**
- **ПЕРЕД ОБСЛУЖИВАНИЕМ ОБОРУДОВАНИЯ ОБЯЗАТЕЛЬНО ОБРАТИТЕСЬ К ДАННОМУ РУКОВОДСТВУ И ПОЙМИТЕ ИЗЛОЖЕННЫЕ В НЕМ СВЕДЕНИЯ.**
- **НЕСОБЛЮДЕНИЕ ТРЕБОВАНИЙ ДАННОГО ПРЕДУПРЕЖДЕНИЯ МОЖЕТ ПРИВЕСТИ К ТОМУ, ЧТО СПЕЦИАЛИСТ ПО ОБСЛУЖИВАНИЮ, ОПЕРАТОР ИЛИ ПАЦИЕНТ ПОЛУЧАТ УДАР ЭЛЕКТРИЧЕСКИМ ТОКОМ, МЕХАНИЧЕСКУЮ ТРАВМУ ИЛИ ДРУГОЕ ПОВРЕЖДЕНИЕ.**

UPOZORNENIE
(SK)

- **TENTO NÁVOD NA OBSLUHU JE K DISPOZÍCII LEN V ANGLIČTINE.**
- **AK ZÁKAZNÍKOV POSKYTOVATEĽ SLUŽIEB VYŽADUJE INÝ JAZYK AKO ANGLIČTINU, POSKYTNUTIE PREKLADATEĽSKÝCH SLUŽIEB JE ZODPOVEDNOSŤOU ZÁKAZNÍKA.**
- **NEPOKÚŠAJTE SA O OBSLUHU ZARIADENIA SKÔR, AKO SI NEPREČÍTATE NÁVOD NA OBLUHU A NEPOROZUMIETE MU.**
- **ZANEDBANIE TOHTO UPOZORNENIA MÔŽE VYÚSTIŤ DO ZRANENIA POSKYTOVATEĽA SLUŽIEB, OBSLUHUJÚCEJ OSOBY ALEBO PACIENTA ELEKTRICKÝM PRÚDOM, DO MECHANICKÉHO ALEBO INÉHO NEBEZPEČENSTVA.**

ATENCION
(ES)

- **ESTE MANUAL DE SERVICIO SOLO EXISTE EN INGLES.**
- **SI ALGUN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLES, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCION.**
- **NO SE DEBERA DAR SERVICIO TECNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.**
- **LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.**

VARNING
(SV)

- **DEN HÄR SERVICEHANDBOKEN FINNS BARA TILLGÄNGLIG PÅ ENGELSKA.**
- **OM EN KUNDS SERVICETEKNIKER HAR BEHOV AV ETT ANNAT SPRÅK ÄN ENGELSKA ANSVARAR KUNDEN FÖR ATT TILLHANDAHÅLLA ÖVERSÄTTNINGSTJÄNSTER.**
- **FÖRSÖK INTE UTFÖRA SERVICE PÅ UTRUSTNINGEN OM DU INTE HAR LÄST OCH FÖRSTÅR DEN HÄR SERVICEHANDBOKEN.**
- **OM DU INTE TAR HÄNSYN TILL DEN HÄR VARNINGEN KAN DET RESULTERA I SKADOR PÅ SERVICETEKNIKERN, OPERATÖREN ELLER PATIENTEN TILL FÖLJD AV ELEKTRISKA STÖTAR, MEKANISKA FAROR ELLER ANDRA FAROR.**

DİKKAT
(TR)

- **BU SERVİS KILAVUZUNUN SADECE İNGİLİZCESİ MEVCUTTUR.**
- **EĞER MÜŞTERİ TEKNİSYENİ BU KILAVUZU İNGİLİZCE DIŞINDA BİR BAŞKA LİSANDAN TALEP EDERSE, BUNU TERCÜME ETTİRMEK MÜŞTERİYE DÜŞER.**
- **SERVİS KILAVUZUNU OKUYUP ANLAMADAN EKİPMANLARA MÜDAHALE ETMEYİNİZ.**
- **BU UYARIYA UYULMAMASI, ELEKTRİK, MEKANİK VEYA DİĞER TEHLİKELERDEN DOLAYI TEKNİSYEN, OPERATÖR VEYA HASTANIN YARALANMASINA YOL AÇABİLİR.**

ПРЕДУПРЕЖДЕНИЕ
(BG)

- **ТОВА УПЪТВАНЕ ЗА РАБОТА Е НАЛИЧНО САМО НА АНГЛИЙСКИ ЕЗИК.**
- **АКО ДОСТАВЧИКЪТ НА УСЛУГАТА НА КЛИЕНТА ИЗИСКА ЕЗИК, РАЗЛИЧЕН ОТ АНГЛИЙСКИ, ЗАДЪЛЖЕНИЕ НА КЛИЕНТА Е ДА ОСИГУРИ ПРЕВОД.**
- **НЕ ИЗПОЛЗВАЙТЕ ОБОРУДВАНЕТО ПРЕДИ ДА СТЕ СЕ КОНСУЛТИРАЛИ И РАЗБРАЛИ УПЪТВАНЕТО ЗА РАБОТА.**
- **НЕСПАЗВАНЕТО НА ТОВА ПРЕДУПРЕЖДЕНИЕ МОЖЕ ДА ДОВЕДЕ ДО НАРАНЯВАНЕ НА ДОСТАВЧИКА НА УСЛУГАТА, ОПЕРАТОРА ИЛИ ПАЦИЕНТ В РЕЗУЛТАТ НА ТОКОВ УДАР ИЛИ МЕХАНИЧНА ИЛИ ДРУГА ОПАСНОСТ.**

DAMAGE IN TRANSPORTATION

All packages should be closely examined at time of delivery. If damage is apparent write “Damage In Shipment” on ALL copies of the freight or express bill BEFORE delivery is accepted or “signed for” by a GE representative or hospital receiving agent. Whether noted or concealed, damage MUST be reported to the carrier immediately upon discovery, or in any event, within 14 days after receipt, and the contents and containers held for inspection by the carrier. A transportation company will not pay a claim for damage if an inspection is not requested within this 14 day period.

To file a report:

Fill out a report on http://egems.med.ge.com/edq/home.jsp

Contact the local service coordinator.

CERTIFIED ELECTRICAL CONTRACTOR STATEMENT

All electrical Installations that are preliminary to positioning of the equipment at the site prepared for the equipment shall be performed by licensed electrical contractors. In addition, electrical feeds into the Power Distribution Unit shall be performed by licensed electrical contractors. Other connections between pieces of electrical equipment, calibrations and testing shall be performed by qualified GE Medical personnel. The products involved (and the accompanying electrical installations) are highly sophisticated, and special engineering competence is required. In performing all electrical work on these products, GE will use its own specially trained field engineers. All of GE’s electrical work on these products will comply with the requirements of the applicable electrical codes.

The purchaser of GE equipment shall only utilize qualified personnel (i.e., GE’s field engineers, personnel of third-party service companies with equivalent training, or licensed electricians) to perform electrical servicing on the equipment.

IMPORTANT...X-RAY PROTECTION

X-ray equipment if not properly used may cause injury. Accordingly, the instructions herein contained should be thoroughly read and understood by everyone who will use the equipment before you attempt to place this equipment in operation. The General Electric Company, Medical Systems Group, will be glad to assist and cooperate in placing this equipment in use.

Although this apparatus incorporates a high degree of protection against x-radiation other than the useful beam, no practical design of equipment can provide complete protection. Nor can any practical design compel the operator to take adequate precautions to prevent the possibility of any persons carelessly exposing themselves or others to radiation.

It is important that anyone having anything to do with x-radiation be properly trained and fully acquainted with the recommendations of the National Council on Radiation Protection and Measurements as published in NCRP Reports available from NCRP Publications, 7910 Woodmont Avenue, Room 1016, Bethesda, Maryland 20814, and of the International Commission on Radiation Protection, and take adequate steps to protect against injury.

The equipment is sold with the understanding that the General Electric Company, Medical Systems Group, its agents, and representatives have no responsibility for injury or damage which may result from improper use of the equipment.

Various protective materials and devices are available. It is urged that such materials or devices be used.

LITHIUM BATTERY CAUTIONARY STATEMENTS

⚠ **CAUTION Risk of Explosion** **Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer’s instructions.**

ATTENTION
Danger d'Explosion

Il y a danger d'explosion s'il y a replacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type recommandé par le constructeur. Mettre au rébut les batteries usagées conformément aux instructions du fabricant.

OMISSIONS & ERRORS

Customers, please contact your GE Sales or Service representatives.

GE personnel, please use the GEMS CQA Process to report all omissions, errors, and defects in this publication.

Table of Contents

Section 1 Introduction 19
1.1 Material List 19
1.2 Flowchart 20

Section 2 Conversion Procedure 21
2.1 Only for V/R2.xx 21
2.2 Preparation (only for OS revision up) 21
2.3 Shut Down System 21
2.4 Hardware Installation 22
2.4.1 Remove the 3.5" MOD Drive and CD-ROM Drive 22
2.4.2 Install the DVD-RAM Drive 23
2.5 Software Upgrade 24
2.5.1 Keep primary OS version 24
2.5.2 Upgrade OS Version to 4.5.1 25
2.6 Finalization 29

Section 1 Introduction

DVD and Software V/R3.14 Upgrade Kits are available for the following condition:

- 3.5" MOD Drive was failure and EOL
- CD-ROM Drive was failure and EOL
- System software revision up from V/R3.0x to V/R3.1x

This upgrade instruction describes the procedures of 3.5" MOD Drive and CD-ROM Drive upgrade to DVD-RAM Drive and software V/R3.14 upgrade. After the upgrade, DVD-RAM Drive will replace the function of 3.5" MOD Drive and CD-ROM Drive. You can load software and save system state using DVD-RAM. But image archive is not supported by DVD-RAM, 5 inch MOD should still be used.

The software V/R3.14 applies to CT/e, CT ProSpeed AI/FI Series products with Linux system only.

This section contains the material list and flowchart of procedures.

1.1 Material List

Verify that the contents of option kits are correct according to the Material List below.

DVD and Software V/R3.14 Upgrade Instruction_for Global (5213369)

Item	Part NO.	Qty	Description	Comments
1	5172692	1.0	CTe SCSI DVD-RAM Driver	Contains Adaptor and a Power Cable
2	5144980	1.0	CTT 4.5.1, OS SW	
3	5165531	1.0	Application Software V/R3.12	
4	5179533	1.0	Patch Software V/R3.13	
5	5197830	1.0	Patch Software V/R3.14	
6	5212458-100	1.0	Software V/R3.14 Upgrade Instruction (This Manual)	
7	5189296	1.0	Shield Board	

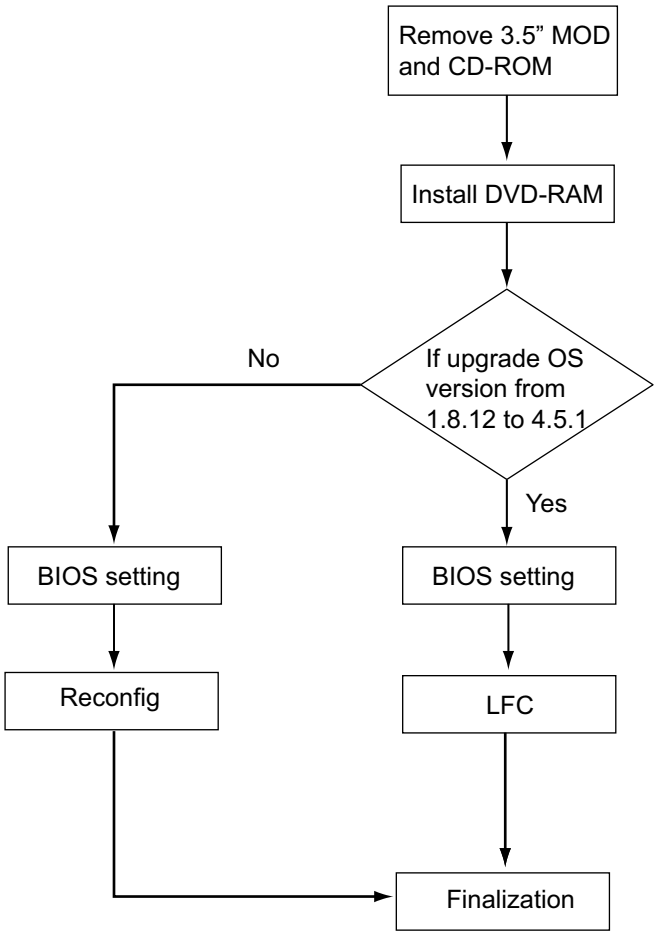
DVD and Software V/R3.14 Upgrade Instruction_for China (5212790)

Item	Part NO.	Qty	Description	Comments
1	5172692	1.0	CTe SCSI DVD-RAM Driver	Contains Adaptor and a Power Cable
2	5144980	1.0	CTT 4.5.1, OS SW	
3	5170371	1.0	Application Software V/R3.12t	
4	5179533	1.0	Patch Software V/R3.13	
5	5197830	1.0	Patch Software V/R3.14	
6	5212458-100	1.0	Software V/R3.14 Upgrade Instruction (This Manual)	
7	5189296	1.0	Shield Board	

1.2 Flowchart

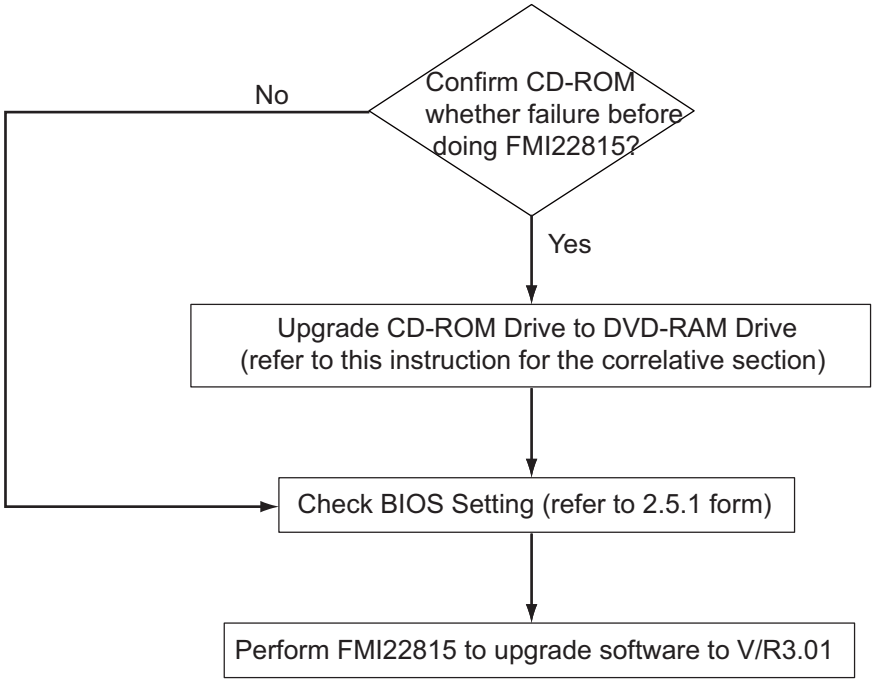
For OS revision up to CTT4.5.1, if the site needs InSite software, please prepare InSite Software V/R3.52 (P/N: 5150686) before going to site.

The Illustration below shows the main flow of the conversion procedures.



Section 2 Conversion Procedure

2.1 Only for V/R2.xx


Confirm CD-ROM whether failure before doing FMI22815?
No
Yes
Upgrade CD-ROM Drive to DVD-RAM Drive
(refer to this instruction for the correlative section)
Check BIOS Setting (refer to 2.5.1 form)
Perform FMI22815 to upgrade software to V/R3.01

Please download FMI22815 Instruction from *Common Documentation Library* link:
http://olcweb.olc.med.ge.com:8020/servlet/ClientServletProp/22815.pdf?REQ=RAA&DIRECTION=5135610&FILENAME=22815.pdf&FILEREV=1&DOCREV_ORG=1

2.2 Preparation (only for OS revision up)

1. Save Patient Data.
2. Save System State Data to Laptop.

How to save state: (Don't insert MOD)

A.) Open a shell
B.) Type: **`savestate -nomod`** (This will save states to /MOD on harddisk.)
C.) System prompts a message for "Savestate will erase original contents", press **OK**.
D.) "Savestate successfully." displays.
E.) Type: **`tar czvf xxx.tgz /MOD`** (Compress states to xxx.tgz)
F.) ftp xxx.tgz to laptop

3. Record Option Information.

Note: FE has to get eOption Key from OLC Support Center, then restore the Software Options with eOption Key.

2.3 Shut Down System

1. Shut down the system.
2. Power OFF the console by pressing the front panel switch when '`System Halted`' message displays.
3. Remove the console front and right side covers.
4. Turn off CB1, CB2 at right side of the console.

2.4 Hardware Installation

2.4.1 Remove the 3.5" MOD Drive and CD-ROM Drive

1. Remove the six (6) screws at the front of the SCSI Bay and the two (2) screws at the rear of the SCSI Bay that fasten the SCSI Bay (see Figure 1).
2. Remove the SCSI Bay right dust cover by unscrewing its four (4) screws.

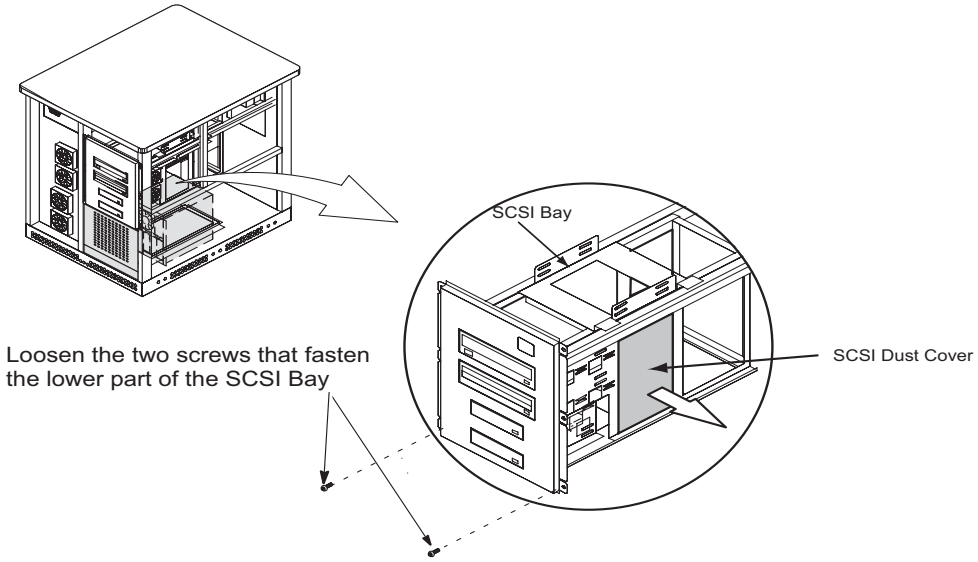


Figure 1 SCSI Bay

3. **(For 845 PC)** Disconnect Power Cable, Audio Cable and Signal Cable from CD-ROM Drive. **(For 865 PC)** Disconnect Power Cable, Audio Cable and IDE-USB Signal Cable from CD-ROM Drive, disconnect IDE-USB Signal Cable from Host Computer and remove it.
4. Disconnect the cables from the rear of 3.5" MOD Drive.
5. Remove the front shield cover of 3.5" MOD Drive, slide the 3.5" MOD Drive and CD-ROM Drive out of the OC.

Note: If 3.5" MOD is still normal working and would like to use its function, please keep it in the SCSI Bay.

2.4.2 Install the DVD-RAM Drive

1. Check the jumper settings of the SCSI DVD-RAM Drive. (See Figure 2)

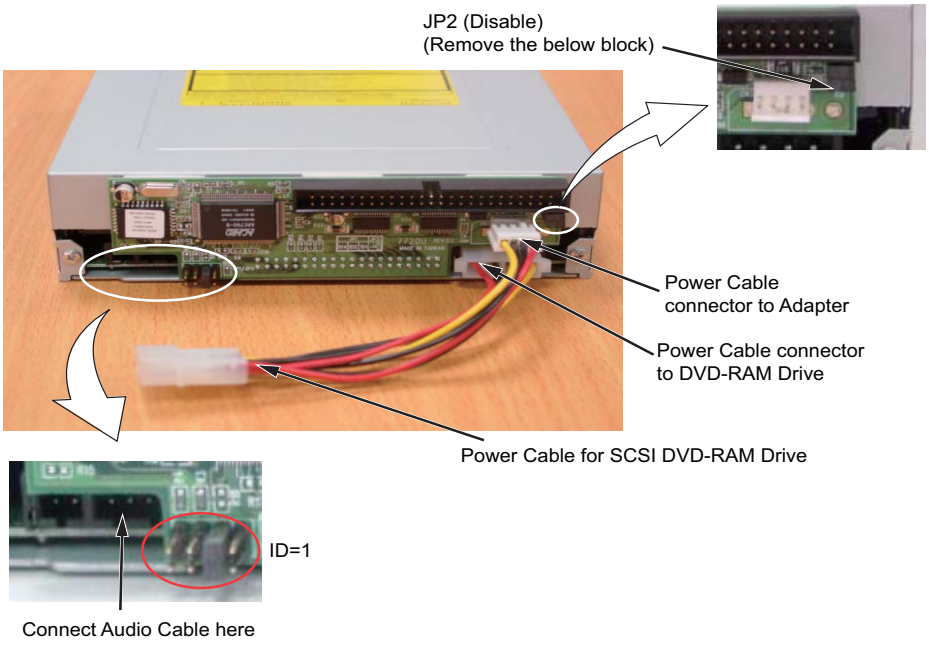


Figure 2 Rear of DVD-RAM Drive

2. Respectively connect the two Power Cable connectors to the DVD-RAM Drive and the Adapter.
3. Install the DVD-RAM Drive in the place of CD-ROM Drive by securing four screws.
4. Connect the Audio Cable.
5. Connect the DVD-RAM Drive Power Cable to the Power Cable connector that originally connected to CD-ROM Drive.
6. Connect the SCSI Signal Cable to the DVD-RAM Drive. (See Figure 3)

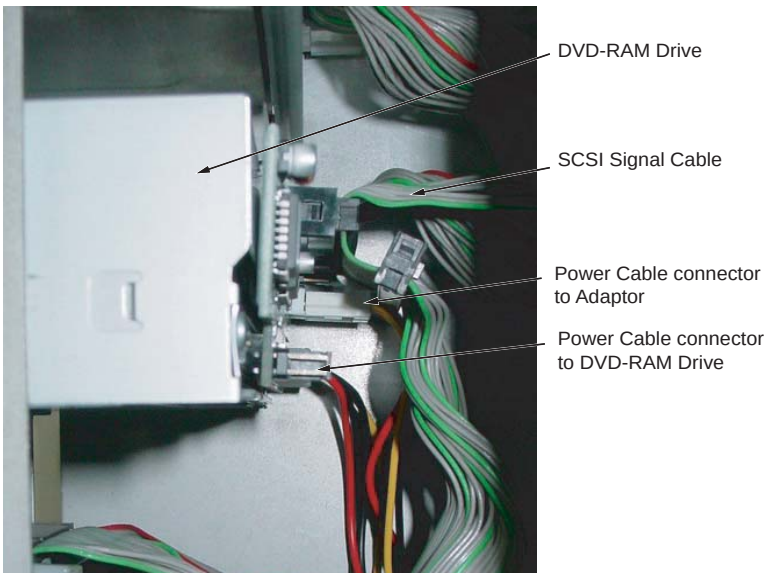


Figure 3 Cable Connection to DVD-RAM Drive

2.5 Software Upgrade

2.5.1 Keep OS1.8.12

Note: If customer hope to keep primary system software state, please follow the following steps.
If customer hope to upgrade system software to OS4.5.1 platform, please skip to 2.5.2.

NOTICE Software version V/R3.0x supports DVD-RAM function.

1. Turn on CB1, CB2.
2. Power ON the Operator Console.
3. Hit **Meas Dist** on the OC keyboard during the system booting up to enter BIOS setting screen.
4. Enter password "linux".
5. Select **Set User Password**, click "Enter" three times to cancel original password. Then "Save & Exit Setup". Reboot the system, enter BIOS again.
6. Select "Advanced BIOS Features", select boot devices as below:

System	First Boot Device	Second Boot Device	Third Boot Device
For system with 845PC	CDROM	SCSI	HDD-0
For system with 865PC	USB-CDROM	CDROM	Harddisk

Note: For more information about BIOS Setting refer to Advanced Diagnostics manual of the system.

7. Press **Esc**.
8. Select "Standard CMOS Features", check if two harddisks are detected in IDE devices list.
9. Press **Esc**.
10. Re-set the original password (the password is "linux").

Note: BIOS Setting Password MUST be set. Only trained service personnel can enter BIOS Setting.

11. Save & Exit Setup.
12. Then the system continues to boot up and begins detecting SCSI Devices. Make sure DVD-RAM is shown in the list of SCSI Device.
13. After OS started, click **Reconfig** -> **Hardware Setting**, select **DVD-RAM** as State Storage Type. (Click DVD-RAM twice to make sure it is selected.)

Note: Please select **MOD** as State Storage for keeping 3.5" MOD function in case of good 3.5" MOD.

14. Click Accept.

2.5.2 OS Revision Up to 4.5.1

- **BIOS Setting**

1.) Turn on CB1, CB2.

2.) Power ON the Operator Console.

3.) Hit **Meas Dist** on the OC keyboard during the system booting up to enter BIOS setting screen.

4.) Enter password "linux".

5.) Select **Set User Password**, click "Enter" three times to cancel original password. Then "Save & Exit Setup". Reboot the system, enter BIOS again.

6.) Select "Advanced BIOS Features", select boot devices as below:

System	First Boot Device	Second Boot Device	Third Boot Device
For system with 845PC	CDROM	SCSI	HDD-0
For system with 865PC	USB-CDROM	CDROM	Harddisk

Note: For more information about BIOS Setting refer to Advanced Diagnostics manual of the system.

7.) Press **Esc**.

8.) Select "Integrated Peripherals Features", BIOS setting as below **(For 865PC only)**:

System	Level 1	Level 2	Config Info.
system with 865PC	On-Chip IDE Device	On-Chip Primary PCI IDE	Disabled
		On-Chip Secondary PCI IDE	Disabled
		On-Chip Serial ATA	Enhanced Mode

9.) Press **Esc**.

10.) Select "Standard CMOS Features", check if two harddisks are detected in IDE devices list.

11.) Press **Esc**.

12.) Re-set the original password (the password is "linux").

Note: BIOS Setting Password MUST be set. Only trained service personnel can enter BIOS Setting.

13.) Save & Exit Setup.

14.) Then the system continues to boot up and begins detecting SCSI Devices. Make sure DVD-RAM is shown in the list of SCSI Device.

- **Software Installation**

A.) LFC Procedure - OS Installation

Prerequisite - OS software CTT4.5.1

1.) Insert the OS software disk into the DVD-RAM drive of the OC before Host PC starts up.

2.) Verify that the LED of the DVD-RAM drive is ON, then OFF again.

3.) OS installation will begin automatically when Host PC booting up.

4.) Type the following responses to the indicated prompts:
boot: **iGEHC** <Enter>
(The installation program runs.)

Note: Click on **OK** to keep the default settings (for Keyboard Type, etc) and proceed the procedure.

5.) About 10 minutes later, the “Complete” window appears, press “enter “ to reboot. System will be rebooted and then the drive tray is pop-up automatically, remove the disk from the drive tray.

B.) LFC Procedure - Application Installation

Prerequisite - Application software V/R3.12 or V/R3.12t

1.) After system reboot, close a Linux dialog box popped up, press DVD-RAM drive button to insert the application software disk into the DVD-RAM drive, and the disk will be auto mounted, a dialog will be popped up: “Do you wish to run/mnt/cdrom/autorun?”, click on **Yes**. Then wait for several minutes for the initialization of installation.

2.) A message window will appear. Two Modes are provided. Select **Normal**.

3.) Two minutes later, a dialog will appear: “Install Utility”, click on **Load** to begin loading the software.

4.) After the reboot completes and the Xwindow starts, a shell window will display, wait for about 3 minutes (for few sites, possibly wait for over 20 minutes) and a menu window of “Select Product” will appear, click on the product name to select, then click on **Yes**.

5.) A message window will appear. "Please select which device installed in your system, DVD-RAM or MOD?", Select **DVD**.

6.) Then a message window will appear to prompt inserting DVD to restore system configuration of system state, click on **Cancel**.

7.) 3 to 5 minutes later, a system configuration window appears.

8.) Click the **ACCEPT** button.

9.) A time setup window will display, set the date and time of the system and click on **set**, then click on **Quit**.

10.) Wait for about 3 to 5 minutes, a message window will appear to prompt **restoring state**, click on **No**.

11.) A message window will appear, click Quit to abort option installation.

12.) A message window appears. “ The system needs to be rebooted for the changes to take effect. Do you wish to reboot now ”. Click **Yes** to restart.

13.) How to restore State.

A.) ftp xxx.tgz from laptop to /usr/g/ctuser in OC

B.) On the desktop menu, open a shell to type the following responses.

C.) su -

D.) **#bigguy**

E.) cd /

F.) `mkdir /MOD` (only for /MOD path doesn’t exit)

G.) **`chmod 777 /MOD`**

H.) **`exit`**

I.) **`cd /MOD`**

J.) **`cp /usr/g/ctuser/xxx.tgz /MOD`**

K.) **`tar xvzf xxx.tgz`**

L.) **`savestate -r -nomod`**

C.) Patch Installation

Prerequisite - Application Patch Software V/R3.13 and V/R3.14

1.) Insert the application patch software disk into the DVD-RAM drive of the OC.

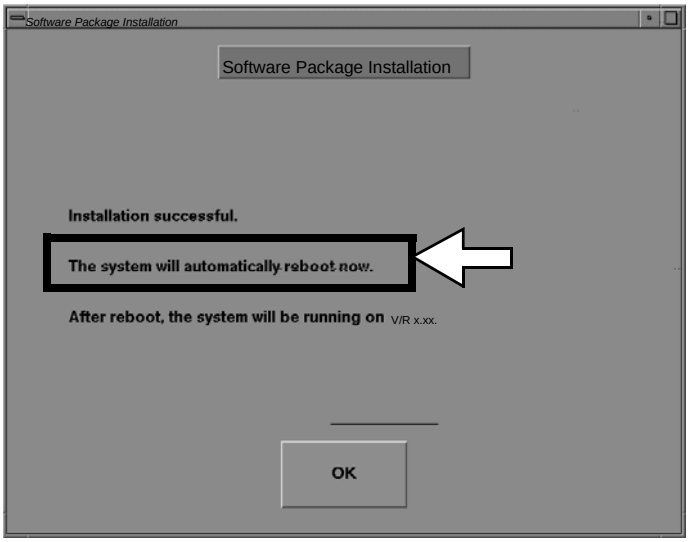
2.) On the desktop menu, click on **Install Software** located on the upper right of the screen.

3.) “Do you install software from DVD?” window appears. Click on **Yes.**

4.) “Following software will be installed” window appears. Click on **Yes.**
The patch installation procedures are automatically started.

5.) Click on **OK** in response to “Installation Successful.” window.

Note: Some patch softwares might require reboot (shown below). If it does, when clicking on **OK**, the system automatically reboots and pauses at the desktop menu.


Software Package Installation
Software Package Installation
Installation successful.
The system will automatically reboot now.
After reboot, the system will be running on V/R x.xx.
OK

CAUTION If existed DBPCI II cards, please re-load patch software (5257019, DBPCI Tool Software VR1.0 for software VR3.0x or VR3.1x).

a. Restart system.

b. When "You have 5 seconds to cancel application startup....." message appears, click on **Cancel**.

c. Insert the CD-ROM (Patch Software) into the DVD-RAM drive of the OC.

d. Open a shell.

e. Type the following responses to the indicated prompts:

- su -
- #bigguy
- mount /dev/dvd /mnt/cdrom
- cd /mnt/cdrom/bin
- ./installDBPCI2

f. Type the following to eject the CD-ROM when ‘installation successfully’ displays.

- cd /
- umount /mnt/cdrom
- eject
- exit

a.) Shutdown to restart the system.

b.) The information displays: "Set DBPCI2 finished.".

D.) InSite Installation

Prerequisite

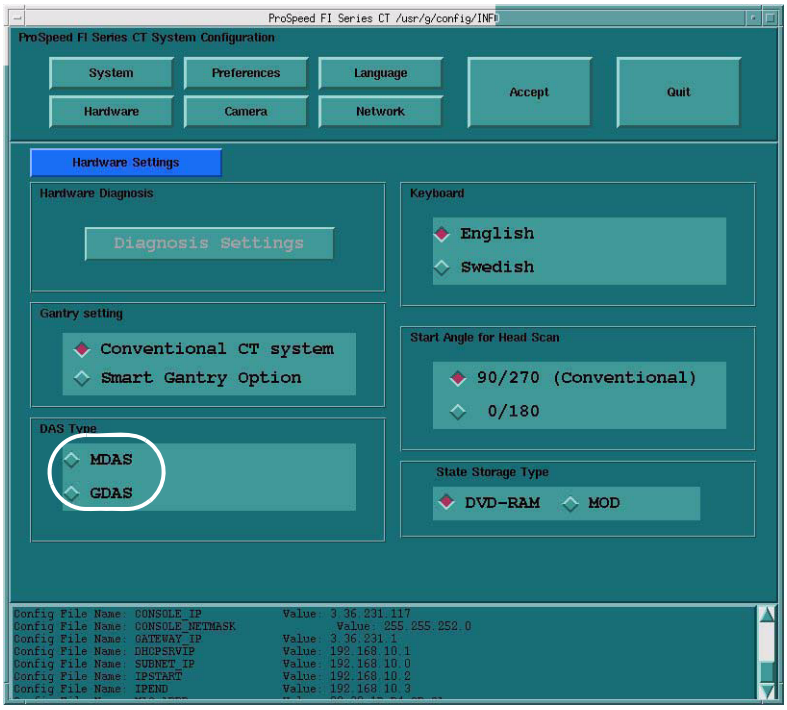
- InSite Software V/R3.52 (PN: 5150686)
- The modem must be powered on.

1.) After system reboots, when "You have 5 seconds to cancel application startup....." message appears, click on **Cancel**.
2.) Insert the InSite CD-ROM into the DVD-RAM drive.
3.) On the desktop menu, click on Install Software button located on the upper right of the screen.
4.) "Do you install software from CD-ROM?" message appears.
Click on **Yes**.
5.) "Following software will be installed." window appears.
Click on **Yes**.
The InSite software loading procedures is started. It takes a few minutes to complete.
6.) "Installation complete." message appears.
Click on **OK**.
7.) On the desktop menu, click on **Shell** button located on the upper right of the screen.
8.) Eject the CD-ROM.

E.) Reconfig system configuration

NOTICE **The System configuration data <u>MUST be checked or changed when a different version of the application software has been loaded</u>, because new setting(s) might be added in a new version of software.**

1.) Restart system, in desktop menu, click on **Reconfig** located on the upper right of the screen. The system configuration screen appears.



2.) For Hardware Setting shown as above:

i.) Select **DVD-RAM** for **State Storage Type**. (Click DVD-RAM twice to make sure it is selected.)

Note: Please select **MOD** as State Storage for keeping 3.5" MOD function.

ii.) Select **DAS Type** depending on the system.
Identify DAS Type according to part number on the rating plate located at rear center of the Gantry Base.
MDAS: 2370953G
DAS: 2370953-2

3.) Click on **Accept**.

2.6 Finalization

1. FE obtains eOption Key from OLC Support Center, then restore the Software Options with eOption Key.
2. Save system state again using DVD-RAM.
3. Start up Application.
4. Perform a test scan and verify that the image is normal.
5. Shut down the OC.
6. Install the new shield board.

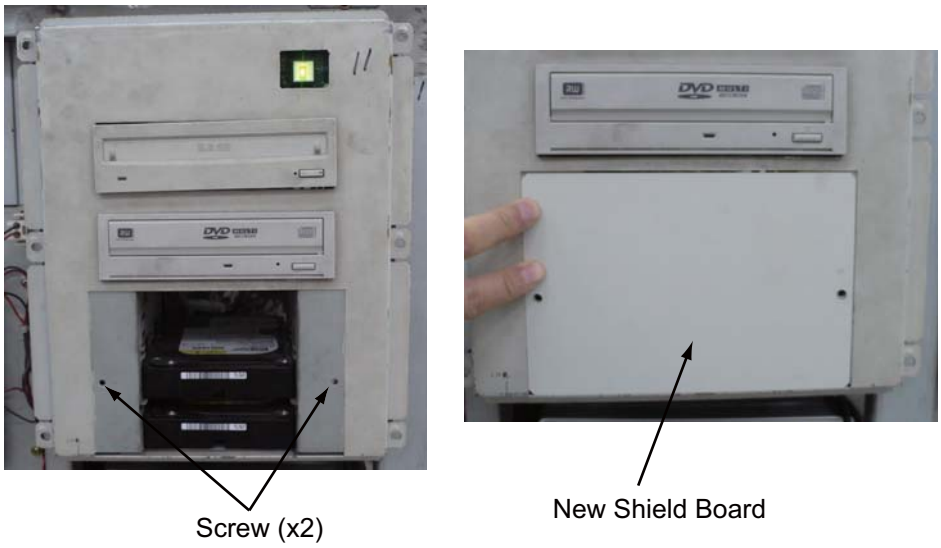


Figure 4 Install the New Shield Board

7. Reassemble the OC front cover and side cover.

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Imagination at work